

IN THE CLAIMS:

Claims 1-15 (Canceled)

16. (Currently Amended) A manufacturing method for production of an edge-illuminated sign with one or more figures having a large relief effect and a strong luminescence, the method comprising:

providing a transparent, light guiding material having a surface;

forming a relief of a figure having a surface recessed in the light guiding material by using a laser beam to vaporize the light guiding material in proportion to an input amplitude- and frequency-controlled amount of laser power; and

controlling the laser beam using a master program that makes the laser beam scan a line pattern for burning light guiding material to create the relief at the same time as the laser beam is modulated by a frequency that controls the amplitude of the input power to the laser and thereby creates a microscopic screen pattern on the surface of the relief at the same time as an image program is superposed to control the amplitude and scanning frequency, so that the input laser power with amplitude variations proportional to the relief of the figure will burn at different depths and thereby form the relief of the figure such that the entire relief of the figure is recessed in the light guiding material, wherein the microscopic screen pattern provides a strong luminescence.

17. (Previously Presented) A manufacturing method according to claim 16, wherein lines of the line pattern have a distance from each other that is essentially equal to the length of the screen pattern.

18. (Previously Presented) A manufacturing method according to claim 17, wherein lines of the line pattern have a distance from each other that is essentially equal to about 0.1 mm.

19. (Previously Presented) A manufacturing method according to claim 16, wherein the lines of the line pattern have a distance from each other that is different from the length of the screen pattern.

20. (Previously Presented) A manufacturing method according to claim 16, wherein the lines of the line pattern have a distance from each other that are larger or smaller than the length of the screen pattern obtained by the frequency that controls the amplitude of the input laser power and thereby create screen patterns of differing character.

21. (Currently Amended) An edge-illuminated electric sign comprising:

a light ~~transmitting~~ guiding material having a first edge arranged to receive light from a light source into the light ~~transmitting~~ guiding material and a surface, said light ~~transmitting~~ guiding material comprising one or more figures, each figure being in a form of a relief recessed in the light ~~transmitting~~ guiding material, wherein each relief having a surface comprising a microscopic screen pattern with varying depth to provide strong luminescence, and wherein the entire relief is recessed in the light guiding material.

22. (Previously Presented) An edge-illuminated electric sign according to claim 21, wherein the one or more figures face a rear of the sign and the light guiding material having a surface facing the rear of the sign in which the one or more figures are recessed, further comprising an edge-illumination for illuminating the light guiding material from an edge, and further comprising a fine mesh applied to the surface of the light guiding material in which the fine mesh has a fineness proportional to the luminescence desired in different positions of the background and that the fineness is also proportional to the distance to the edge-illumination such that the fineness is greater the greater the distance from the edge-illumination.

23. (Previously Presented) An edge-illuminated electric sign according to claim 22, further comprising a first mounting device, that is adapted to position and/or protect light-emitting elements at or inside an edge portion of said electric sign.

24. (Previously Presented) An edge-illuminated electric sign according to claim 23, wherein said mounting device is a continuous element that is arranged along a main part of said edge portion.

25. (Previously Presented) An edge-illuminated electric sign according to claim 23, wherein said mounting device is provided with at least one connecting means, arranged to enable positioning of the electric sign at a desired location.

26. (Previously Presented) An electric sign according to claim 25, wherein said connecting means comprises a male or female element for interaction with mounting strip having a therefore adapted male or female element, for mounting of the electric sign.

27. (Previously Presented) An electric sign according to claim 25, wherein said mounting device is provided with at least two connecting means, arranged at different angles in relation to each other.

28. (Previously Presented) An electric sign according to claim 27, wherein said mounting device is provided with at least two connecting means displaced by 90°.

29. (Previously Presented) An edge-illuminated electric sign according to claim 23, wherein said mounting device, at least at one of its end portions, is provided with a connector that is connected to said light-emitting elements.

30. (Previously Presented) An edge-illuminated electric sign according to claim 29, wherein said mounting device is provided with connectors at both ends.

31. (Previously Presented) An edge-illuminated electric sign according to claim 29, wherein said mounting device has at least one connector for interaction with said connector at said sign.

32. (Cancelled)

33. (Previously Presented) An edge-illuminated electric sign according to claim 23, wherein said mounting device is an extruded element.

34. (Cancelled)

35. (Previously Presented) An edge-illuminated electric sign according to claim 26, wherein said mounting strip is an extruded element.

36. (Previously Presented) An edge illuminated sign according to claim 22, wherein the fine mesh comprises a film or foil.

37. (Previously Presented) A method according to claim 16, wherein the screen pattern comprises rectangular parallelepipeds in juxtaposition to each other and due to the nature of the laser beam vertical surfaces are sloping.

38. (Previously Presented) An edge-illuminated sign according to claim 21, wherein the screen pattern comprises rectangular parallelepipeds in juxtaposition to each other and due to the nature of the laser beam vertical surfaces are sloping.

39. (Previously Presented) A manufacturing method according to claim 16, further comprising mounting the light guiding material in the sign such that the surface faces a rear of the sign, providing an edge-illumination to the light guiding material, and providing a fine mesh to the surface in which the fine mesh has a fineness proportional to the luminescence desired in different positions of the background and that the fineness is also proportional to the distance to the edge-illumination such that the fineness is greater the greater the distance from the edge-illumination.

40. (Previously Presented) A manufacturing method according to claim 29, wherein the fine mesh comprises a film or foil.